

**CLAIMS****What is claimed is:**

- 5 1. A magnetic core having linear B-H characteristic which does not change with the level of magnetic fields applied and the frequency used.
2. A magnetic core as recited by claim 1, consisting essentially of an amorphous iron-based alloy having saturation induction of at least about about 10 kG (1 tesla).
- 10 3. A magnetic core as recited by claim 2, wherein said alloy is slit into ribbon and wound to produce said core.
4. A magnetic core as recited by claim 3, having a configuration selected from the group consisting of toroidal, square, rectangular, and triangular shapes.
5. An inductor comprising a magnetic core as recited by claim 4, having a copper winding.
- 15 6. An inductor as recited by claim 5, further comprising an additional copper wire winding on said core.
7. An inductor as recited by claim 5, further comprising an additional copper wire inserted into a hollow geometrically center section of said core.
- 20 8. A current transformer comprising the inductor of claim 6, wherein the additional wire carries an electrical current to be monitored or measured with accuracy.
9. A current transformer comprising the inductor of claim 7, wherein the additional wire carries an electrical current to be monitored or measured with accuracy.
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10. A current transformer, as recited by claim 8, having an output voltage adapted for measurement by a voltmeter for accurate measurement of the electrical current in said additional wire.
11. A current transformer, as recited by claim 9, having an output voltage adapted  
5 for measurement by a voltmeter for accurate measurement of the electrical current in said additional wire.

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